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NOTICE OF ALLOWANCE AND FEE(S) DUE

51501 7590 03/27/200

OAKLAND, CA 94612-0250

03/27/2008

WEAVER AUSTIN VILLENEUVE & SAMPSON LLP ATTN: ALTERA P.O. BOX 70250 EXAMINER

KERVEROS, JAMES C

ART UNIT PAPER NUMBER

DATE MAILED: 03/27/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/829,024 | 04/20/2004 | Aaron Ferrucci | ALTRP112/A1251 | 5974 |

TITLE OF INVENTION: PSEUDO-RANDOM WAIT-STATE AND PSEUDO-RANDOM LATENCY COMPONENTS

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1440 | \$0 | \$0 | \$1440 | 06/27/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat | form should be used to correspondence including d below or directed oth tions | for transmitting the ISS ig the Patent, advance of nerwise in Block 1, by | UE FEE and PUBLICATI orders and notification of r (a) specifying a new corres | ON FEE (if require naintenance fees will pondence address; a | d). Blocks 1 through 5 : be mailed to the current nd/or (b) indicating a sep | should be completed when t correspondence address a arate "FEE ADDRESS" fo |
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| CURRENT CORRESPONDENCE ADDRESS (Note: the Block I for any change of address) | | | | s) Transmittal. This e ers. Each additional p | ailing can only be used for certificate cannot be used saper, such as an assignman f mailing or transmission. | or domestic mailings of the for any other accompanying ent or formal drawing, mus |
| ATTN: ALTERA P.O. BOX 70250 | A) | 72008 JVE & SAMPSOI | NLLP Lbe | Certify | icate of Mailing or Trans Fee(s) Transmittal is bein | smission g deposited with the United st class mail in an envelope above, or being facsimile date indicated below. |
| OAKLAND, CA | 94612-0250 | | | | | (Depositor's name) |
| | | | | | | (Signature) |
| | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | | TTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/829,024 | 04/20/2004 | • | Aaron Ferrucci | | ALTRP112/A1251 | 5974 |
| | | | SEUDO-RANDOM LATE | | | |
| APPLN, TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE I | | |
| nonprovisional | NO | \$1440 | \$0 | \$0 | \$1440 | 06/27/2008 |
| EXAM | INER | ART UNIT | CLASS-SUBCLASS | J | | |
| KERVEROS | | 2117 | 714-724000 | | | |
| 1. Change of correspondence address or indication of 'Fee Address' (Y CFR 1.833). Change of correspondence address for Change of Correspondence Address form (TOS/81/22) attack). The Address from (TOS/81/22) attack). The Address' indication for 'Fee Address' indication form FPOS/81/47; Key 0.202 or more recent) attached. Use of a Customa Number is required. ASSIGNEE AMM AND RISIDENCE DATA TO BE PRINTED O | | | (1) the names of up to 3 registered patent attorneys 1. (2) the name of a single firm thaving as a member a registered attorney or agent) and the name of up to registered attorney or agent) and the name of up to listed, no name will be printed. | | | |
| PLEASE NOTE: Unb recordation as set forti (A) NAME OF ASSIC | ess an assignee is ident h in 37 CFR 3.11. Comp GNEE | ified below, no assigned pletion of this form is NO | e data will appear on the p DT a substitute for filing an (B) RESIDENCE: (CITY | atent. If an assignee assignment. and STATE OR CO | UNTRY) | |
| | | categories (will not be p | orinted on the patent): | Individual Gorp | oration or other private gr | oup entity Government |
| 4a. The following fee(s) a Issue Fee Publication Fee (N Advance Order - # | o small entity discount p | | tb. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo | d. Form PTO-2038 is authorized to charge | s attached. the required fee(s), any d | |
| | s SMALL ENTITY state | as. See 37 CFR 1.27. | | | ENTITY status. Sec 37 C | |
| NOTE: The Issue Fee and interest as shown by the r | d Publication Fee (if req records of the United Sta | uired) will not be accept ites Patent and Trademar | ed from anyone other than t k Office. | he applicant; a registe | ered attorney or agent; or t | he assignee or other party ir |
| Authorized Signature | | | | Date | | |
| Typed or printed name | | | | Registration No. | | |
| This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C itality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450. | CFR 1.311. The informat U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to to O NOT SEND FEES OR | ion is required to obtain or r R. 1.14. This collection is est y depending upon the indiv he Chief Information Office COMPLETED FORMS TO | etain a benefit by the imated to take 12 min idual case. Any comer, U.S. Patent and Tr D THIS ADDRESS. | public which is to file (an nutes to complete, includi ments on the amount of ti ademark Office, U.S. Dep SEND TO: Commissioner | d by the USPTO to process ing gathering, preparing, and me you require to complete cartment of Commerce, P.O. for Patents, P.O. Box 1450 |

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

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| WEAVER AUSTIN VILLENEUVE & SAMPSON LLP | | | | KERVEROS | S, JAMES C |
| ATTN: ALTER | | | | ART UNIT | PAPER NUMBER |
| P.O. BOX 70250 OAKLAND, CA 94612-0250 | | | 2117 | in . | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 210 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 210 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

Notice of Allowability

| Application No. | Applicant(s) | | |
|------------------|-----------------|--|--|
| 10/829,024 | FERRUCCI ET AL. | | |
| Examiner | Art Unit | | |
| IAMES C KEDVEDOS | 2117 | | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to RCE and Amendment filed 1/30/2008.
- 2. The allowed claim(s) is/are 1-14 and 16-30. Renumbered Claims 1-29.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. ____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) Thereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date ____
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

/JAMES C KERVEROS/ Primary Examiner, Art Unit 2117 Application/Control Number: 10/829,024

Art Unit: 2117

NOTICE OF ALLOWANCE

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 1/30/2008 has been entered.

This is a Notice of Allowance in response to Amendment filed 1/30/2008.

Claim 15 is cancelled. Claims 1-14 and 16-30 are in the Application.

Allowable Subject Matter

Claims 1-14 and 16-30 are allowed. Renumbered Claims 1-29.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

The prior arts of record taken alone or in combination fail to teach, anticipate, suggest or render obvious a method and apparatus for testing arbitration logic associated with a digital logic device, as recited in the independent claims, below.

Independent claims 1 and 28, as currently amended, recite among other limitations "determining a pseudo-random delay at the secondary component prior to responding to the request" and "sending a response from the secondary component after the pseudo-random delay." Application/Control Number: 10/829,024

Art Unit: 2117

Independent claims 13 and 21, as currently amended, recite among other limitations "wherein the values include a first value used to adjust the wait-state of the secondary component and a second value used to adjust the latency of the secondary component, wherein the wait-state is time the primary component has to wait before the second component accepts requests and the latency is time the secondary component takes to respond to the request."

Consequently, Claims 1-14 and 16-30 are allowed over the prior arts of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES C. KERVEROS whose telephone number is (571) 272-3824. The examiner can normally be reached on 9:00 AM TO 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques H. Louis-Jacques can be reached on (571) 272-4150. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/829,024 Page 4

Art Unit: 2117

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES C KERVEROS/ Primary Examiner, Art Unit 2117

Date: 27 March 2008 Office Action: Allowance

U.S. Patent & Trademark Office Alexandria, VA 22314. Tel: (571) 272-3824, Fax: (571) 273-3824

Email: james.kerveros@uspto.gov